

Hudson Yards Tower C Building Skin

New York, New York

Owner

The Related Companies

Client/Architect

Kohn Pedersen Fox Associates PC

General Contractor

Perini

Total Area

2.1 million sf

Number of Stories

61

Height

1,017 feet



Thornton Tomasetti is providing building skin design services for a 200-foot-by 60-foot atrium cable wall and an 80-foot by 200-foot lobby cable at Tower C of the Hudson Yards development.

The initial atrium study, which included cable-net systems and long-span truss systems, aimed at understanding the structural implications and façade issues involved in building a multi-story atrium. The studies led to a one-way vertical cable system with intermediate beams supporting laminated glass panels through glass fittings. Close coordination between the concrete building structure and the glazing system was required during the design stage to produce a buildable solution. The lobby cable wall is also a one-way vertical cable system. The cable wall wraps around two corners of the lobby leading to a combined vertical cable wall and glass diaphragm solution to transfer lateral forces at the returns.

The building is designed to achieve LEED-Gold certification from the U.S. Green Building Council.